| Exploring Aeronautics | | | |
|---|---|---|---|
| **2007 Mathematics** | | | |
| **Next Generation Sunshine State Standards** | | | |
| **Florida Mathematics** | | | |
| **Grade 5** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| The Resource Center | FL | MA.5.MA.5.A.6.4 | Compare, order, and graph integers, including integers shown on a number line. |
| Integrating with Aeronautics | FL | MA.5.MA.5.A.1.1 | Describe the process of finding quotients involving multi-digit dividends using models, place value, properties and the relationship of division to multiplication. |
| Integrating with Aeronautics | FL | MA.5.MA.5.A.1.2 | Estimate quotients or calculate them mentally depending on the context and numbers involved. |
| Integrating with Aeronautics | FL | MA.5.MA.5.A.2.1 | Represent addition and subtraction of decimals and fractions with like and unlike denominators using models, place value or properties. |
| Integrating with Aeronautics | FL | MA.5.MA.5.A.2.3 | Make reasonable estimates of fraction and decimal sums and differences, and use techniques for rounding. |
| Scientific Method(124-144) | FL | MA.5.MA.5.A.4.2 | Construct and describe a graph showing continuous data, such as a graph of a quantity that changes over time. |
| Scientific Method(124-144) | FL | MA.5.MA.5.S.7.1 | Construct and analyze line graphs and double bar graphs. |
| Scientific Method(124-144) | FL | MA.5.MA.5.S.7.2 | Differentiate between continuous and discrete data and determine ways to represent those using graphs and diagrams. |
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| Exploring Aeronautics | | | |
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| **2007 Mathematics** | | | |
| **Next Generation Sunshine State Standards** | | | |
| **Florida Mathematics** | | | |
| **Grade 6** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| The Resource Center | FL | MA.6.MA.6.A.2.2 | Interpret and compare ratios and rates. |
| Integrating with Aeronautics | FL | MA.6.MA.6.A.2.1 | Use reasoning about multiplication and division to solve ratio and rate problems. |
| Integrating with Aeronautics | FL | MA.6.MA.6.A.2.2 | Interpret and compare ratios and rates. |
| Integrating with Aeronautics | FL | MA.6.MA.6.A.3.1 | Write and evaluate mathematical expressions that correspond to given situations. |
| Integrating with Aeronautics | FL | MA.6.MA.6.A.5.2 | Compare and order fractions, decimals, and percents, including finding their approximate location on a number line. |
| Integrating with Aeronautics | FL | MA.6.MA.6.A.5.3 | Estimate the results of computations with fractions, decimals, and percents and judge the reasonableness of the results. |

| Activity/Lesson | State | Standards | |
|---|---|---|---|
| Scientific Method(124-144) | FL | MA.6.MA.6.S.6.2 | Select and analyze the measures of central tendency or variability to represent, describe, analyze and/or summarize a data set for the purposes of answering questions appropriately. |
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| | **Exploring Aeronautics** | | |
| | **2007 Mathematics** | | |
| | **Next Generation Sunshine State Standards** | | |
| **Florida Mathematics** | | | |
| **Grade 7** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| Wings(177-208) | FL | MA.7.MA.7.G.2.1 | Justify and apply formulas for surface area and volume of pyramids, prisms, cylinders, and cones. |
| Wings(177-208) | FL | MA.7.MA.7.G.4.1 | Determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and apply these relationships to solve problems. |
| Integrating with Aeronautics | FL | MA.7.MA.7.S.6.2 | Construct and analyze histograms, stem-and-leaf plots, and circle graphs. |
| Scientific Method(124-144) | FL | MA.7.MA.7.S.6.2 | Construct and analyze histograms, stem-and-leaf plots, and circle graphs. |
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| | **Exploring Aeronautics** | | |
| | **2007 Mathematics** | | |
| | **Next Generation Sunshine State Standards** | | |
| **Florida Mathematics** | | | |
| **Grade 8** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| Integrating with Aeronautics | FL | MA.8.MA.8.A.1.1 | Create and interpret tables, graphs, and models to represent, analyze, and solve problems related to linear equations, including analysis of domain, range and the difference between discrete and continuous data. |
| Integrating with Aeronautics | FL | MA.8.MA.8.G.2.4 | Validate and apply Pythagorean Theorem to find distances in real world situations or between points in the coordinate plane. |
| Integrating with Aeronautics | FL | MA.8.MA.8.A.6.4 | Perform operations on real numbers (including integer exponents, radicals, percents, scientific notation, absolute value, rational numbers, and irrational numbers) using multi-step and real world problems. |
| Integrating with Aeronautics | FL | MA.8.MA.8.A.6.2 | Make reasonable approximations of square roots and mathematical expressions that include square roots, and use them to estimate solutions to problems and to compare mathematical expressions involving real numbers and radical expressions. |
| Scientific Method(124-144) | FL | MA.8.MA.8.A.1.1 | Create and interpret tables, graphs, and models to represent, analyze, and solve problems related to linear equations, including analysis of domain, range and the difference between discrete and continuous data. |

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| Scientific Method(124-144) | FL | MA.8.MA.8.S.3.1 | Select, organize and construct appropriate data displays, including box and whisker plots, scatter plots, and lines of best fit to convey information and make conjectures about possible relationships. |
| Scientific Method(124-144) | FL | MA.8.MA.8.S.3.2 | Determine and describe how changes in data values impact measures of central tendency. |